HYDROBIOLOGIA
Volume 444, 1 February 2001

Part I
Modelling Sediment Resuspension, Water Quality and Submersed Aquatic Vegetation

Guest Editors
E. P. H. Best & J. W. Barko

Preface
E.P.H. Best, J.W. Barko vii–viii

Hydrodynamic and sediment transport modeling with emphasis on shallow-water, vegetated areas (lakes, reservoirs, estuaries and lagoons)
Allen M. Teeter, Billy H. Johnson, Charlie Berger, Guus Stelling, Norman W. Scheffner, Marcelo H. Garcia, T.M. Parchure 1–23

Modeling underwater light climate in relation to sedimentation, resuspension, water quality and autotrophic growth
Elisabeth H.S. Van Duin, Gerard Blom, F. Johannes Los, Robert Maffione, Richard Zimmerman, Carl F. Cerco, Mark Dortch, Elly P.H. Best 25–42

Modeling submersed macrophyte growth in relation to underwater light climate: modeling approaches and application potential
Elly P. H. Best, Christopher P. Buzzelli, Steven M. Bartell, Richard L. Wetzel, William A. Boyd, Robert D. Doyle, Kym R. Campbell 43–70

The interaction between water movement, sediment dynamics and submersed macrophytes
J. D. Madsen, P. A. Chambers, W. F. James, E. W. Koch, D. F. Westlake 71–84

Part II
Regular Articles

River restoration and flood protection: controversy or synergism?
P.H. Nienhuis, R.S.E.W. Leuven 85–99

Monitoring of black mangrove restoration with nursery-reared seedlings on an arid coastal lagoon
Gerardo Toledo, Adriana Rojas, Yoav Bashan 101–109

Potential denitrification in submerged natural and impacted sediments of Lake Batata, an Amazonian lake
F. A. Esteves, A. Enrich-Prast, D. D. Biesboer 111–117

Seasonal variations of diatoms and dinoflagellates in a shallow, temperate estuary, with emphasis on neritic assemblages
Juan María Trigueros, Emma Orive 119–133

Phytoplankton of Estonian rivers in midsummer
Kai Piirsoo 135–146

Macroinvertebrate assemblages in Andean Patagonian rivers and streams: environmental relationships
Maria Laura Miserendino 147–158

Evaluation of the sample size used for the rapid bioassessment of rivers using macroinvertebrates
Leon Metzeling, Jessica Miller 159–170

Enumerating phytoplankton with an upright compound microscope using a modified settling chamber
P.B. Hamilton, M. Proulx, C. Earle 171–175

A molecular framework for the phylogeny of the Pseudocerotidae (Platyhelminthes, Polycladida)
M. K. Litvaitis, L. J. Newman 177–182

Biological, chemical and physical characteristics of downwelling and upwelling zones in the hyporheic zone of a north-temperate stream
Rob J. M. Franken, Richard G. Storey, D. Dudley Williams 183–195

***Therodamas* Krøyer, 1863 (Copepoda: Ergasilidae) from the Piauí River estuary, State of Sergipe, Brazil**
H. M. P. Araujo, G. A. Boxshall 197–202

Effects of solar radiation, humic substances and nutrients on phytoplankton biomass and distribution in Lake Solumsjö, Sweden
Roman A. Danilov, Nils G. A. Ekelund 203–212

The effects of UV-B radiation on the reproduction and mortality of *Tigriopus californicus* (Copepoda: Harpacticoida)
Kanoelani Kane, Christopher M. Pomory 213–215

Effects of ship traffic on archipelago waters off the Långnäs harbour in Åland, SW Finland
Tore Lindholm, Mia Svartström, Lisa Spoof, Jussi Meriluoto 217–225

Morphological variation in the polyps of the scleractinian coral *Favia speciosa* (Dana) around Singapore
P. A. Todd, P. G. Sanderson, L. M. Chou 227–235

Two new species of the *orientalis* group of *Rheocricotopus* (*Psilocricotopus*) from China (Diptera: Chironomidae)
Xinhua Wang, Ole A. Sæther 237–240

Author index 241

Also available electronically via http://www.kluweronline.nl